

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/562, 383A  
Source: IFWP  
Date Processed by STIC: 03/21/2007

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DATE: 03/21/2007

PATENT APPLICATION: US/10/562,383A

TIME: 10:56:21

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Output Set: N:\CRF4\03212007\J562383A.raw

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3 <110> APPLICANT: Lofton-Day, Cathy; Model, Fabian; Sledziewski, Andrew; Rujan, Tamas;  
 4 Lewin, Joern; Distler, Juergen  
 6 <120> TITLE OF INVENTION: Methods and nucleic acids for the analysis of colorectal  
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C--> 10 <141> CURRENT FILING DATE: 2005-12-23  
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 13 <151> PRIOR FILING DATE: 2004-06-23  
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248 &lt;211&gt; LENGTH: 2229

249 &lt;212&gt; TYPE: DNA

250 &lt;213&gt; ORGANISM: Homo Sapiens

252 &lt;400&gt; SEQUENCE: 5

```

254 tctttcctcg gcgctggctg gtgcgggttg gggtcagggt gagaagccgc tctttgttaa      60
255 ggtgacagaa cgtgctgggg gtggggggcg gggccagggc cgggtgcaact agggggccgc      120
256 tgccctttcc tggacacagt ggaagcttct tccgcatcac caaatttttg tcatccttcc      180
257 tgagggacct gcttcaggc agcacgcaag ttgttgctcc gggtttactc cgcaccctcc      240
258 tactgggtga ggaaggagca tcttgaatgg agatgggggt gtccccggtt tatacatctg      300
259 cagagaagag gtgtgccggg ctgcacctct ggaggccgcg gtaactgata ttagagaaga      360
260 ccccggttgc agctgggaag gctcactggc tggaaagagg tgccctcctcc ttccagcaaa      420
261 gggccctgtt tggaagggtt gcttctcacc tgtctagtgg caccacagga cggtcggctt      480
262 cactcgaaat tccccggac ggtatcatca catagccggg tcctcgaggt gttggtttcc      540
263 caatccgatg actgtcacct cggtagggac ctgtgctgat ggccggagaa ccctgcgctg      600
264 cgggcgcaca tggccagggt gcgcctggca ggcgacgtcc ggggtgcagga cggcgctctt      660

```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/562,383A

DATE: 03/21/2007  
TIME: 10:56:22

Input Set : N:\RJAVED\10562383.TXT  
Output Set: N:\CRF4\03212007\J562383A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:51; N Pos. 2126,2128,2131,2132  
Seq#:404; N Pos. 2126,2128,2131,2132  
Seq#:405; N Pos. 113,114,117,119  
Seq#:520; N Pos. 2126,2128,2131,2132  
Seq#:521; N Pos. 113,114,117,119

## VERIFICATION SUMMARY

DATE: 03/21/2007

PATENT APPLICATION: US/10/562,383A

TIME: 10:56:22

Input Set : N:\RJAVED\10562383.TXT

Output Set: N:\CRF4\03212007\J562383A.raw

L:0 M:201 W: Mandatory field data missing, <130> FILE REFERENCE  
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:2975 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:2100  
L:13003 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:404 after pos.:2100  
L:13023 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:405 after pos.:60  
L:19891 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:520 after pos.:2100  
L:19912 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:521 after pos.:60  
L:28189 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28190 M:112 C: (48) String data converted to lower case,  
L:28202 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28203 M:112 C: (48) String data converted to lower case,  
L:28214 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28215 M:112 C: (48) String data converted to lower case,  
L:28226 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28227 M:112 C: (48) String data converted to lower case,  
L:28238 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28239 M:112 C: (48) String data converted to lower case,  
L:28250 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28251 M:112 C: (48) String data converted to lower case,  
L:28262 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28263 M:112 C: (48) String data converted to lower case,  
L:28274 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28275 M:112 C: (48) String data converted to lower case,  
L:28286 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28287 M:112 C: (48) String data converted to lower case,  
L:28298 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28299 M:112 C: (48) String data converted to lower case,  
L:28310 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28311 M:112 C: (48) String data converted to lower case,  
L:28322 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28323 M:112 C: (48) String data converted to lower case,  
L:28334 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28335 M:112 C: (48) String data converted to lower case,  
L:28346 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28347 M:112 C: (48) String data converted to lower case,  
L:28358 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28359 M:112 C: (48) String data converted to lower case,  
L:28370 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28371 M:112 C: (48) String data converted to lower case,  
L:28382 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28383 M:112 C: (48) String data converted to lower case,  
L:28394 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28395 M:112 C: (48) String data converted to lower case,  
L:28406 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28407 M:112 C: (48) String data converted to lower case,  
L:28418 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28419 M:112 C: (48) String data converted to lower case,  
L:28430 M:283 W: Missing Blank Line separator, <400> field identifier



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Input Set : N:\RJAVED\10562383.TXT

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L:28431 M:112 C: (48) String data converted to lower case,  
L:28442 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28443 M:112 C: (48) String data converted to lower case,  
L:28454 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28455 M:112 C: (48) String data converted to lower case,  
L:28466 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28467 M:112 C: (48) String data converted to lower case,  
L:28478 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28479 M:112 C: (48) String data converted to lower case,  
L:28490 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28491 M:112 C: (48) String data converted to lower case,  
L:28502 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28503 M:112 C: (48) String data converted to lower case,  
L:28514 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28515 M:112 C: (48) String data converted to lower case,  
L:28526 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28527 M:112 C: (48) String data converted to lower case,  
L:28538 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28539 M:112 C: (48) String data converted to lower case,  
L:28550 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28551 M:112 C: (48) String data converted to lower case,  
L:28562 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28563 M:112 C: (48) String data converted to lower case,  
L:28574 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28575 M:112 C: (48) String data converted to lower case,  
L:28583 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:28586 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28587 M:112 C: (48) String data converted to lower case,  
L:28598 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28599 M:112 C: (48) String data converted to lower case,  
L:28610 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28611 M:112 C: (48) String data converted to lower case,  
L:28622 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28623 M:112 C: (48) String data converted to lower case,  
L:28634 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28635 M:112 C: (48) String data converted to lower case,  
L:28646 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28647 M:112 C: (48) String data converted to lower case,  
L:28661 M:112 C: (48) String data converted to lower case,  
L:28672 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28674 M:112 C: (48) String data converted to lower case,  
L:28685 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28686 M:112 C: (48) String data converted to lower case,  
L:28697 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28698 M:112 C: (48) String data converted to lower case,  
L:28709 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28710 M:112 C: (48) String data converted to lower case,  
L:28721 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28722 M:112 C: (48) String data converted to lower case,

## VERIFICATION SUMMARY

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Input Set : N:\RJAVED\10562383.TXT

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L:28733 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28734 M:112 C: (48) String data converted to lower case,  
L:28745 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28746 M:112 C: (48) String data converted to lower case,  
L:28758 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28759 M:112 C: (48) String data converted to lower case,  
L:28770 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28771 M:112 C: (48) String data converted to lower case,  
L:28783 M:283 W: Missing Blank Line separator, <400> field identifier  
L:28784 M:112 C: (48) String data converted to lower case,  
L:28795 M:283 W: Missing Blank Line separator, <400> field identifier  
L:29116 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:30498 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:30980 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:34255 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:34484 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:35379 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:36024 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:36796 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:38225 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:39362 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:40038 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:41461 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:42561 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:44277 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:44568 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:46405 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:46829 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:47834 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:48971 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:49369 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:51974 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:53474 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:53991 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:54330 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:54848 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:55174 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:55331 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:55622 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:56018 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:58470 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:58761 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:60801 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:62193 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:63909 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:64739 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:65852 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:66625 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:67397 M:256 W: Invalid Numeric Header Field, <220> has non-blank data

## VERIFICATION SUMMARY

DATE: 03/21/2007

PATENT APPLICATION: US/10/562,383A

TIME: 10:56:22

Input Set : N:\RJAVED\10562383.TXT

Output Set: N:\CRF4\03212007\J562383A.raw

L:68170 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:68942 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:69715 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:75147 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:75465 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:77944 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:78582 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:79623 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:81035 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:81697 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:83074 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:148241 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11096) SEQUENCE:  
L:148246 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11097) SEQUENCE:  
L:148251 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11098) SEQUENCE:  
L:148256 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11099) SEQUENCE:  
L:148261 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11100) SEQUENCE:  
L:148266 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11101) SEQUENCE:  
L:148271 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11102) SEQUENCE:  
L:148276 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11103) SEQUENCE:  
L:148281 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11104) SEQUENCE:  
L:148286 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11105) SEQUENCE:  
L:148291 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11106) SEQUENCE:  
L:148296 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11107) SEQUENCE:  
L:148301 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11108) SEQUENCE:  
L:148306 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11109) SEQUENCE:  
L:148311 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11110) SEQUENCE:  
L:148316 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11111) SEQUENCE:  
L:148321 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11112) SEQUENCE:  
L:148326 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11113) SEQUENCE:  
L:148331 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11114) SEQUENCE:  
L:148336 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11115) SEQUENCE:  
L:148341 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11116) SEQUENCE:  
L:148346 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11117) SEQUENCE:  
L:148351 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11118) SEQUENCE:  
L:148356 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11119) SEQUENCE:  
L:148361 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11120) SEQUENCE:  
L:148366 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11121) SEQUENCE:  
L:148371 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11122) SEQUENCE:  
L:148376 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11123) SEQUENCE:  
L:148381 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11124) SEQUENCE:  
L:148386 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11125) SEQUENCE:  
L:148391 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11126) SEQUENCE:  
L:148396 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11127) SEQUENCE:  
L:148401 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11128) SEQUENCE:  
L:148406 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11129) SEQUENCE:  
L:148411 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11130) SEQUENCE:  
L:148416 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11131) SEQUENCE:  
L:148421 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11132) SEQUENCE:  
L:148426 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11133) SEQUENCE:

## VERIFICATION SUMMARY

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TIME: 10:56:22

Input Set : N:\RJAVED\10562383.TXT

Output Set: N:\CRF4\03212007\J562383A.raw

L:148431 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11134) SEQUENCE:  
L:148436 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11135) SEQUENCE:  
L:148441 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11136) SEQUENCE:  
L:148446 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11137) SEQUENCE:  
L:148451 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11138) SEQUENCE:  
L:148456 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11139) SEQUENCE:  
L:148461 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11140) SEQUENCE:  
L:148466 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11141) SEQUENCE:  
L:148471 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11142) SEQUENCE:  
L:148476 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11143) SEQUENCE:  
L:148481 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11144) SEQUENCE:  
L:148486 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11145) SEQUENCE: